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MONTANA OIL AND GAS STATISTICAL BULLETIN

ADMINISTRATORS

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JUDSON D. SWEET, PETROLEUM ENGINEER
15 POLY DRIVE
BILLINGS, MONTANA 59101

HERBERT D. HADLEY, GEOLOGIST
15 POLY DRIVE
BILLINGS, MONTANA 59101

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525 SECURITIES BLDG.
BILLINGS, MONTANA 59101

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OIL AND GAS CONSERVATION COMMISSION
SAVINGS BLDG.
HELENA, MONTANA

Vol. XVII, No. 11 — HELENA INDEPENDENT-RECORD, HELENA, MONTANA — November, 1969

Production of crude oil and condensate from the oil and gas areas of Montana for the month of November, 1969, averaged 115,180 barrels daily, a decrease of 1,595 barrels from the average October production of 116,775.

The nine refineries in the state processed 118,773 barrels of crude oil daily for the month of November, 1969, a decrease of 2,325 barrels from the 121,098 barrels processed daily during the month of October, 1969.

During November 86 wells were completed, 14 oil, 17 gas and 55 dry holes.

During November the commission issued 87 permits to drill new wells, an increase of 9 from the 78 permits issued during October.

SUMMARY OF CRUDE OIL PRODUCTION REFINING, STORAGE, ETC., IN MONTANA MONTH OF NOVEMBER, 1969

IN STORAGE NOVEMBER 1st	
By Producers	396,953
By Transporters	1,208,041
By Refiners	577,980
TOTAL STORAGE	2,182,974
Produced in Montana During Month	3,455,410
Imported During Month	2,812,394
TOTALS	8,450,778
DISPOSITION:	
Refined in Montana	3,563,192
Exported	2,622,732
Used for Fuel or Lost	10,270
TOTAL	6,196,194
IN STORAGE NOVEMBER 30th	
By Producers	361,936
By Transporters	1,202,364
By Refiners	690,284
TOTAL STORAGE	2,254,584

NATURAL GAS WITHDRAWALS IN MONTANA

Month of November, 1969

Field	M. Cu. Ft.
Bears Den	0
Bell Creek	728,510
Big Coulee	94,566
Blackjack	91,457
Box Elder	18,058
Bowdoin	178,507
Bowes	35,636
Cabin Creek	106,972
Cedar Creek	393,144
Clarks Fork South	16,800
Cut Bank (Including Reagan)	669,800
Devon	0
Dry Creek	51,163
Elk Basin	95,351
Flat Coulee	18,804
Gold Butte	5,391
Golden Dome	0
Grandview	53,748
Hardin	2,680
Keith Block	125,807
Kevin Sunburst	74,756
Lake Basin	94,508
Middle Butte	2,884
Mt. Lilly	46,995
Pine	58,872
Plevna	2,756
Squaw Coulee	37,325
Tiger Ridge	37,912
Utopia	80,134
Whitlash	84,700
Miscellaneous	276,228
TOTAL	3,483,464

Total withdrawals for November, 1968 were 3,087,254.

PRODUCERS REPORT—MONTH OF NOVEMBER, 1969

Leases	Field	No. of Wells	Storage 1st of Month	Oil Produced	Oil Shipped By		Used or Lost	Storage End of Month
					Pipeline	Truck		
3	Ash Creek	3	422	2,439	----	2,392	----	469
...	Bannatyne	----	566	----	----	----	----	566
1	Bascom	1	183	35	----	----	----	218
4	Bear's Den	5	1,954	1,097	----	1,239	----	1,812
82	Bell Creek	376	98,599	963,565	1,001,448	----	2,111	58,605
1	Benrud	1	413	721	446	----	----	688
2	Benrud East	2	1,450	14,455	14,123	----	----	1,782
1	Benrud Northeast	1	635	3,739	3,316	----	----	1,058
1	Berthelote	1	647	278	428	----	----	497
5	Big Wall	17	2,273	12,424	13,859	----	----	838
5	Blackfoot	7	1,224	2,724	2,611	----	----	1,337
6	Border	6	753	1,611	----	1,838	----	526
1	Bowes	55	1,866	12,464	11,686	----	----	2,644
1	Bradley	1	497	647	824	----	----	320
2	Brady	2	310	32	46	----	----	296
4	Brorson-Madison	4	1,134	6,220	6,194	----	----	1,160
6	Brorson-Red River	6	6,346	31,569	----	31,568	----	6,347
3	Brorson-Red River South	3	3,538	16,697	----	16,188	----	4,047
2	Cabin Creek	97	----	302,516	302,516	----	----	----
10	Cat Creek	59	2,785	17,446	16,762	800	----	2,669
1	Clark's Fork	1	162	176	----	192	----	146
1	Clark's Fork South	1	495	1,999	----	2,187	----	307
3	Conrad South	3	662	1,533	1,533	----	----	662
1	Cow Creek	1	232	750	821	----	----	161
2	Cupton	2	2,111	3,277	----	4,242	----	1,146
134	Cut Bank	861	62,638	429,789	430,347	----	----	62,080
2	Deer Creek	2	420	1,926	1,285	----	----	1,061
1	Delphia	1	415	271	----	208	----	478
...	Devil's Basin	----	688	----	----	----	----	688
1	Dwyer	12	3,441	18,642	17,703	----	----	4,380
4	Elk Basin	60	1,583	186,644	186,627	----	----	1,600
5	Elk Basin Northwest	14	8,134	21,612	21,181	----	----	8,565
9	Fairview	10	9,597	55,209	56,688	----	----	8,118
2	Fertile Prairie	2	612	1,471	1,399	----	----	684
9	Flat Coulee	28	5,629	10,926	10,260	----	82	6,213
41	Flat Lake	62	7,167	66,665	65,962	----	----	7,870
4	Flat Lake South	4	812	7,525	7,483	----	----	854
1	Frannie	1	----	480	480	----	----	----
24	Fred & George Creek	45	3,550	41,898	42,216	----	----	3,232
1	Gage	1	221	215	----	----	----	436
...	Gage Southwest	----	30	----	----	----	----	30
3	Gas City	17	5,476	23,197	23,929	----	----	4,744
11	Glendive	14	2,583	30,318	25,151	5,520	----	2,230
26	Goose Lake	33	4,622	49,776	49,241	----	----	5,157
9	Graben Coulee	22	2,711	5,685	3,540	828	----	4,028
...	Gypsy Basin	----	833	----	----	----	----	833
2	Hay Creek	2	450	17,193	17,135	----	----	508
6	Hiawatha	6	4,728	12,750	13,184	----	----	4,294
1	Hibbard	1	596	305	----	207	----	694
1	Injun Creek	1	474	512	----	----	----	986
6	Ivanhoe	11	1,508	7,822	7,130	----	----	2,200
4	Keg Coulee	18	2,779	9,541	8,779	----	----	3,541
2	Keg Coulee North	2	1,414	883	1,811	----	----	486
1	Kelley	5	755	5,658	5,503	----	----	910
89	Kevin Sunburst	458	13,471	30,379	26,822	3,226	116	13,686
8	Laird Creek	10	774	5,410	----	5,042	----	1,142
2	Leary	2	1,284	2,109	----	2,481	----	912
1	Little Beaver	28	----	30,329	30,329	----	----	----
2	Little Beaver East*	13	2,002	19,838	19,218	----	----	2,622
2	Lodge Grass	4	832	1,409	----	1,428	----	813
3	Lookout Butte (Coral Creek)	33	636	72,273	72,169	----	----	740
...	Mackay Dome	----	1,139	----	----	----	5	1,134
2	Mason Lake	2	669	1,382	1,352	----	----	699
3	Melstone	5	875	1,444	901	208	----	1,210
1	Mineral Bench	1	144	1,052	878	----	----	318
1	Miner's Coulee	1	107	507	----	507	----	107
10	Monarch	16	3,997	18,584	18,601	----	----	3,980
4	Mosser	4	----	630	----	630	----	----
6	Outlook	10	4,971	19,342	18,154	----	----	6,159
1	Outlook South	1	654	1,861	1,807	----	----	708
2	Outlook West	2	1,455	3,589	3,999	----	----	1,045
3	Pennel-Lookout Butte	114	2,379	121,906	122,884	----	----	1,401
4	Pine	119	18,383	288,482	289,995	----	----	16,870
1	Pole Creek	1	1,052	663	----	1,333	----	382
66	Pondera	347	6,701	26,515	26,969	----	----	6,247
5	Poplar	68	9,035	57,806	55,632	----	19	11,190
5	Poplar Northwest	5	1,755	4,150	3,533	----	----	2,372
1	Prairie Elk	1	1,396	454	979	----	----	871
4	Ragged Point	12	2,463	5,927	5,191	----	----	3,199
2	Rattlesnake Coulee	2	608	995	1,036	----	----	567
2	Reagan	14	488	22,009	21,898	----	----	599
1	Red Creek	23	----	18,899	18,899	----	----	----
1	Red Fox	1	349	4,849	4,889	----	----	309
1	Redstone	1	755	4,539	4,685	----	----	609
1	Repeat	1	96	1,374	----	1,122	----	348
5	Reserve	6	193	15,893	16,086	----	----	----
...	Richey	----	778	----	----	----	----	778
1	Richey Southwest	6	1,020	4,417	4,185	----	----	1,252
1	Rush Mountain	1	437	3,595	----	3,498	----	534
6	Sand Creek	8	3,039	7,758	8,825	----	----	1,972
1	Shotgun Creek	1	522	775	----	999	----	298
...	Sidney	----	880	----	----	----	----	880
1	Snyder	4	1,197	999	----	756	----	1,440
7	Soap Creek	18	3,817	6,906	----	6,849	10	3,864
1	Spring Lake	2	1,143	2,687	----	1,425	----	2,405
1	Stensvad	12	2,356	9,946	10,136	----	----	2,166
13	Sumatra	70	9,901	43,285	43,790	----	----	9,396
5	Tule Creek	6	2,356	37,247	----	36,338	----	3,265
2	Tule Creek East	2	1,094	13,831	----	13,764	----	1,161
2	Tule Creek South	3	1,438	5,297	----	5,306	440	989
2	Vida	2	726	1,092	1,107	----	----	711
3	Volt	4	2,401	14,096	13,427	----	----	3,070
2	Weed Creek	3	400	7,238	7,158	----	28	452
4	Weldon	12	1,819	31,292	31,571	----	30	1,510
1	West Butte	1	----	3,773	----	3,773	----	----
16	Whitlash	46	7,494	13,753	13,204	----	----	8,043
2	Whitlash West	2	860	308	414	----	----	754
3	Wills Creek South	3	50	4,079	4,129	----	----	----
6	Wolf Springs	9	3,957	4,419	5,079	----	----	3,297
2	Woodrow	2	171	2,596	2,460	----	----	307
1	Wildcat, Blaine Cty	1	159	148	----	175	----	132
...	Wildcat, Carbon Cty	----	723	----	----	----	----	723
1	Wildcat, Fallon Cty	1	588	2,416	----	2,235	----	769
2	Wildcat, Glacier Cty	5	1,088	1,108	1,299	----	----	897
1	Wildcat, Liberty Cty	1	293	121	----	207	----	207
1	Wildcat, Musselshell Cty	1	163	57	----	220	----	----
1	Wildcat, Powder River Cty	1	198	300	----	300	----	198
3	Wildcat, Richland Cty	4	711	19,398	----	18,405	----	1,704
3	Wildcat, Roosevelt Cty	3	1,826	9,364	----	9,534	----	1,656
2	Wildcat, Sheridan Cty	2	1,056	11,113	10,383	270	----	1,516
1	Wildcat, Stillwater Cty	1	341	----	276	----	----	65
2	Wildcat, Toole Cty	2	----	1,239	1,239	----	----	----
1	Wildcat, Wibaux Cty	1	165	831	----	911	----	85
798	Total	3,435	396,953	3,455,410	3,299,235	188,351	2,841	361,936

Total Oil Produced & Shipped From Leases

	Bbls. Produced	Daily Average	Bbls Shipped	Daily Average
Year, 1968	48,460,579	132,406	48,370,779	132,161
First Quarter, 1969	11,151,766	123,908	11,176,241	124,180
Second Quarter, 1969	11,081,285	121,772	11,072,056	121,671
Third Quarter, 1969	11,137,765	121,063	11,165,220	121,361
October, 1969	3,620,013	116,775	3,583,665	115,602
November, 1969	3,455,410	115,180	3,487,586	116,253

Oil In Storage

	In Producers Field Tank	In Transporters Storage	In Refiners Storage‡	Total oil In Storage‡
December, 1968	448,662	1,346,295	813,963	2,608,920
March, 1969	411,717	1,346,785	981,174	2,739,676
June, 1969	406,318	1,460,308	1,100,279	2,966,905
September, 1969	363,305	1,162,652	488,551	2,014,508
October, 1969	396,953	1,208,041	577,980	2,182,974
November, 1969	361,936	1,202,364	690,284	2,254,584

*Montana Oil Only
‡Includes Wyoming Oil

TRANSPORTERS REPORT—MONTH OF NOVEMBER, 1969

	Storage First of Month	OIL RECEIVED BY			Loss or (Gain)	OIL SHIPPED TO			Storage End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—Truck			2,392				2,392		
BEAR'S DEN—Truck			1,239				1,239		
BELL CREEK—Pipelines		1,001,448					453,930	547,518	
BIG WALL—									
Continental Pipeline Co.		13,859				13,859			
BLACKFOOT—									
Camerland Cardinal Corp.		2,611						2,611	
BORDER—Truck			1,838					1,838	
BOWES—Texaco Inc.		11,686				11,686			
BRORSON-MADISON—Pipelines		6,194						6,194	
BRORSON-RED RIVER & BRORSON-RED RIVER SOUTH—									
Rock Island Oil & Ref. Co.			47,756				47,756		
CABIN CREEK & OTHERS*									
Butte Pipeline Co.	371,994	789,813	10,884	1,099,571			1,865,366		406,896
Shell Pipeline Co.	3,946	243,685			185			243,942	3,504
	375,940	1,033,498	10,884	1,099,571	185		1,865,366	243,942	410,400
CAT CREEK—									
Continental Pipeline Co.		16,762				16,762			
Truck			800			800			
		16,762	800			17,562			
CLARK'S FORK—Truck			192				192		
CLARK'S FORK SOUTH—Truck			2,187				2,187		
COW CREEK—									
Western Crude Oil, Inc.		821					821		
CUT BANK—									
Continental Pipeline Co.			13,376	439,223				452,599	
Phillips Petroleum Co.	52,675	68,440		42,239	3,330	101,166			58,858
Texas Pipeline Co.	7,941	82,830		33,401	202	1,302		104,137	18,531
Union Oil Co.	56,934	82,500		21,000		103,500			56,934
Western Oil Trans. Co.		36,700						36,700	
Western Oil Trans. (Moulton)		97,304						97,304	
	117,550	367,774	13,376	535,863	3,532	205,968		690,740	134,323
DELPHIA—Truck			208			208			
DWYER—Portal Pipeline Co.		17,748					17,748		
ELK BASIN & ELK BASIN NORTHWEST—									
Marathon Pipeline Co.		207,456				207,456			
FAIRVIEW—Fairview Pipeline Co.		56,688					56,688		
FLAT COULEE—									
Camerland Cardinal Corp.		9,463				6,000		3,463	
FLAT LAKE & FLAT LAKE SOUTH—									
Portal Pipeline Co.		70,848					70,848		
FRANNIE—Interstate Pipeline Co.		480					480		
FRED & GEORGE CREEK—									
Camerland Cardinal Corp.	6,450	44,762				46,221			4,991
GLENDIVE, DEER CREEK WOODROW & SAND CREEK—									
Texas Pipeline Co.	9,951	31,345			744			32,211	8,341
GOOSE LAKE—									
Portal Pipeline Co.		46,967					46,967		
HAY CREEK—									
Fairview Pipeline Co.		17,135					17,135		
HIAWATHA—									
Continental Pipeline Co.		13,184					13,184		
HIBBARD—Truck			207			207			
IVANHOE—									
Continental Pipeline Co.		6,939				6,939			
KEG COULEE & KEG COULEE NORTH—									
Continental Pipeline Co.		11,128				11,128			
KELLEY—									
Continental Pipeline Co.		5,503				5,503			
KEVIN SUNBURST—									
Big West Oil Co.	2,828	16,000				16,000			2,828
Homestake Oil & Gas Co.	3,509	1,200				1,200			3,509
Texas Pipeline Co.	11,361	10,931			99			15,054	7,139
	17,698	28,131			99	17,200		15,054	13,476
LEARY—Truck			2,481				2,481		
LODGE GRASS—Truck			1,428			1,428			
MASON LAKE—									
Continental Pipeline Co.		1,035				1,035			
MELSTONE—Truck			208					208	
Continental Pipeline Co.		901				901			
		901	208			901		208	
MOSSER—Truck			630				630		
OUTLOOK, OUTLOOK SOUTH & OUTLOOK WEST—									
Portal Pipeline Co.		23,926					23,926		
POLE CREEK—Truck			1,333				1,333		
PONDERA—Phillips Petr. Co.	49,958	28,923			(911)	33,891			45,901
POPLAR, BENRUD, BENRUD EAST, RED FOX, REDSTONE, RICHEY, TULE CREEK, TULE CREEK SOUTH & VOLT									
East Poplar Gathering System	19,501	109,955			662			117,225‡	11,569
RAGGED POINT—									
Continental Pipeline Co.		5,190				4,924		266	
RED CREEK—									
Western Oil Transportation Co.		20,671						20,671	
RESERVE—Portal Pipeline Co.		14,612					14,612		
RUSH MOUNTAIN—									
Sinclair Refining Co.			3,498				3,498		
SHOTGUN CREEK—Truck			999				999		
SNYDER—Truck			756			756			
SOAP CREEK—Truck			6,849					6,849	
SPRING LAKE—									
Rock Island Oil & Ref. Co.			1,425					1,425	
SUMATRA & STENSVAD—									
Continental Pipeline Co.	594,810	56,017		1,321,720	894	38,059		1,367,633	565,961
TULE CREEK—									
Tesero Petr. Corp.	16,183		55,408			64,189			7,402
WEED CREEK—									
Continental Pipeline Co.		7,158				7,158			
WHITLASH & WHITLASH WEST—									
Camerland Cardinal Corp.		15,212				14,918		294	
WOLF SPRINGS—									
Continental Pipeline Co.		5,079				5,079			
WILDCAT WELLS—Truck			32,257				32,257		
TOTALS	1,208,041	3,311,109	188,351	2,957,154	5,205	722,275	2,676,669	3,058,142	1,202,364

*Cabin Creek, Cupton, Fertile Prairie, Gas City, Little Beaver, Little Beaver East, Lookout Butte, Monarch, Pennel, Pine, Repeat, Richey, Richey Southwest, Weldon and Wills Creek South.

‡Transferred to Butte Pipeline Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA
MONTH OF NOVEMBER, 1969

Field	Big West Oil Co.	Continental Oil Co.	Diamond Asphalt Co.	Farmers Union	Humble Oil & Ref. Co.	Jet Fuel Refinery	Phillips Petr. Co.	Tesoro Petr. Corp.	Union Oil Co.	Total
Big Wall	----------	13,859	----------	----------	----------	----------	----------	----------	----------	13,859
Bowes	----------	----------	11,680	----------	----------	----------	----------	----------	----------	11,680
Cat Creek	----------	13,500	----------	8,497	----------	159	----------	----------	----------	22,156
Cut Bank	24,000	----------	----------	----------	----------	----------	93,708	----------	107,431	225,139
Delphia	----------	----------	----------	----------	----------	34	----------	----------	----------	34
Elk Basin	----------	76,182	----------	53,074	78,200	----------	----------	----------	----------	207,456
Flat Coulee	----------	----------	----------	----------	----------	----------	----------	----------	6,000	6,000
Fred & George Creek	46,221	----------	----------	----------	----------	----------	----------	----------	----------	46,221
Gage & Gage S. W.	----------	----------	----------	----------	----------	9	----------	----------	----------	9
Hibbard	----------	----------	----------	----------	----------	26	----------	----------	----------	26
Ivanhoe	----------	6,385	----------	----------	----------	----------	----------	----------	----------	6,385
Keg Coulee	----------	6,790	----------	4,338	----------	----------	----------	----------	----------	11,128
Kelley	----------	----------	----------	----------	5,503	----------	----------	----------	----------	5,503
Kevin Sunburst	17,200	----------	----------	----------	----------	----------	----------	----------	----------	17,200
Lodge Grass	----------	1,428	----------	----------	----------	----------	----------	----------	----------	1,428
Mason Lake	----------	1,035	----------	----------	----------	----------	----------	----------	----------	1,035
Melstone	----------	----------	----------	901	----------	----------	----------	----------	----------	901
Pondera	----------	----------	----------	----------	----------	----------	26,131	----------	----------	26,131
Ragged Point	----------	----------	----------	4,924	----------	----------	----------	----------	----------	4,924
Sand Creek	----------	----------	----------	----------	----------	7	----------	----------	----------	7
Snyder	----------	756	----------	----------	----------	----------	----------	----------	----------	756
Sumatra & Stensvad	----------	16,550	----------	11,700	13,004	----------	----------	----------	----------	41,254
Tule Creek	----------	----------	----------	----------	----------	----------	----------	74,411	----------	74,411
Weed Creek	----------	----------	----------	----------	7,158	----------	----------	----------	----------	7,158
Whitlash	----------	----------	----------	----------	----------	----------	14,918	----------	----------	14,918
Wolf Springs	----------	----------	----------	----------	5,079	----------	----------	----------	----------	5,079
Total Montana Oil	87,421	136,485	11,680	83,434	108,944	235	134,757	74,411	113,431	750,798
Canadian Oil Imported	----------	452,351	----------	----------	79,822	----------	----------	----------	----------	532,173
Wyoming Oil Imported	----------	702,706	----------	583,567	993,948	----------	----------	----------	----------	2,280,221
Total Montana, Canadian, and Wyoming Oil	87,421	1,291,542	11,680	667,001	1,182,714	235	134,757	74,411	113,431	3,563,192

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year, 1968	26,482	21,007	64,842	112,331
November, 1968	27,251	32,306	48,917	108,474
November, 1969	25,027	17,739	76,007	118,773

PERCENTAGE OF CRUDE OIL REFINED

Montana	Canada	Wyoming
23.57%	18.70%	57.73%
25.12%	29.78%	45.10%
21.07%	14.94%	63.99%